FACT SHEET

COVID-19 infection in dental practice

Preliminary results suggest dentists may be at lower risk than other healthcare workers

Since the beginning of COVID-19 pandemic, dental practices in many countries have experienced periodic closures and restrictions due to concerns about the risk of SARS-CoV-2 transmission. Restricting access to dental care has resulted in negative consequences to oral health due to missed preventive care and delayed interventions\(^1\)$\(^2\). It also has other severe impacts, such as missed or delayed detection of oral cancers\(^3\)$\(^4\) and increased inappropriate prescribing of antibiotics and analgesics\(^5\)$\(^6\).

Understanding the infection risk posed in dental practices is important to inform current and future decisions on dental practice restrictions and closures. With this goal, FDI is compiling data from countries worldwide to assess the rate of COVID-19 infection among dental practitioners.

How do dentist infection rates compare to those in other healthcare workers?

The below preliminary data, collected through a survey of national dental associations and literature search, show dentists infection rates in five different countries. They are compared with the overall infection rates of other healthcare workers, excluding dentists and other oral health professionals, over the same time frame.

<table>
<thead>
<tr>
<th>Country</th>
<th>Dentist infection rate (per 10,000)</th>
<th>Health care worker infection rate (per 10,000)</th>
<th>Reporting date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
<td>81.4</td>
<td>181.7</td>
<td>05.07.2020</td>
</tr>
<tr>
<td>Colombia</td>
<td>60</td>
<td>76.9 – 96.0 (a)</td>
<td>24.07.2020</td>
</tr>
<tr>
<td>Portugal</td>
<td>18.3</td>
<td>360.7</td>
<td>06.05.2020</td>
</tr>
<tr>
<td>Spain</td>
<td>304.9</td>
<td>922.9</td>
<td>19.06.2020</td>
</tr>
<tr>
<td>USA</td>
<td>91.1</td>
<td>117.9</td>
<td>12.06.2020</td>
</tr>
</tbody>
</table>

(a) Range of HCW infections estimated using proportion of total cases at different timepoints during the pandemic.
What do these data tell us?

These are preliminary data and health professional infection rates must be interpreted with caution, given that some health professions may have stopped practicing for certain periods during the pandemic and the different reporting systems used. However, the data suggest that COVID-19 infection in dental practice may be less likely than in other healthcare settings. There may be several reasons for this. Importantly, people experiencing COVID-19 symptoms are unlikely to visit the dentist\(^7\),\(^8\), and measures are in place to reduce this risk in many countries, such as pre-treatment screening questionnaires\(^9\). Prior to the pandemic, oral health professionals already used a high-level of Personal Protective Equipment (PPE)\(^7\). Coupled with the strengthening of PPE recommendations in many countries early in the pandemic\(^3\), this may also reduce the risk of infection in dental practice.

Further research is needed to better understand these infection rates and the differences between dentists and other healthcare workers, and between countries. FDI is continuing to compile further data from more countries and will publish the full results of its work in the coming months.

References